1	What is claimed is:		
2			
3	1. A filter assembly of a washing machine, comprising:		
4	a filter case comprising:		
5	inlet and outlet on a circumference thereof; and		
6	an opening therein to make the inlet and outlet communicate with each other;		
7	and		
8	a filter provided in the filter case, the filter having a plate disposed in front of the		
9	opening to prevent a heavy particle from passing through the opening wherein the heavy		
10	particle is gathered in a central area by a centrifugal force when water flowing in the filter		
11	case via the inlet whirls to pass through the opening.		
12			
13	2. The filter assembly of claim 1, wherein the filter case is cylindrical.		
14			
15	3. The filter assembly of claim 2, wherein the inlet is provided on an outer		
16	surface of the filter case along a tangent direction.		
17			
18	4. The filter assembly of claim 1, wherein the plate and the opening are circular.		
19			
20	5. The filter assembly of claim 1, wherein the filter case comprises:		
21	a tube having the inlet and outlet on the circumference;		
22	a partition wall provided in the tube to partition an internal space of the tube into first		
23	and second chambers communicating with the inlet and outlet, respectively; and		
24	the opening perforating the partition wall.		

25			
26	6. The filter assembly of claim 5, wherein the inlet is provided on an outer		
27	surface of the tube along a tangent direction.		
28			
29	7. The filter assembly of claim 5, wherein an impeller is provided in the second		
30	chamber to forcibly circulate the water by being rotated by a motor.		
31			
32	8. The filter assembly of claim 5, wherein the filter is provided in the first		
33	chamber.		
34			
35	9. The filter assembly of claim 1, wherein the filter comprises:		
36	a cap fitted to the filter case to be fixed thereto;		
37	a shaft extending from the cap toward the opening; and		
38	the plate provided at an end of the shaft to be disposed in front of the opening with a		
39	predetermined gap.		
40			
41	10. The filter assembly of claim 9, wherein the shaft is disposed along a central		
42	axis of the filter case.		
43			
44	11. The filter assembly of claim 9, wherein the filter is built in one body.		
45			
46	12. The filter assembly of claim 9, wherein a size of the plate is larger than that		
47	of the opening.		

19	13. The filter assembly of claim 9, wherein an edge of the plate is overlapped		
50	with a rim of the opening.		
51			
52	14. The filter assembly of claim 9, wherein the filter further comprises a handle		
53	extending from the cap to facilitate to be grabbed.		
54 ·			
55	15. A filter assembly of a washing machine, comprising:		
56	a filter case comprising:		
57	a tube having inlet and outlet on a circumference thereof;		
58	a partition wall provided in the tube to partition an internal space of the tube		
59	into first and second chambers communicating with the inlet and outlet, respectively;		
60	and		
61	the opening perforating the partition wall; and		
62	a filter comprising:		
63	a cap fitted to the filter case to be fixed thereto;		
64	a shaft extending from the cap toward the opening; and		
65	a plate provided at an end of the shaft to be disposed in front of the opening		
66	with a predetermined gap to prevent a heavy particle from passing through the		
67	opening wherein the heavy particle is gathered in a central area by a centrifugal force		
68	when water flowing in the first chamber via the inlet whirls to pass through the		
69	opening.		
70			
71	16. The filter assembly of claim 15, wherein the tube is cylindrical and the inlet		
72	is provided on an outer surface of the tube along a tangent direction.		

73		
74	17.	The filter assembly of claim 15, wherein the plate and the opening are
75	circular.	
76		
77	18.	The filter assembly of claim 15, wherein an impeller is provided in the
78	second chamber	r to forcibly circulate the water by being rotated by a motor.
79		
80	19.	The filter assembly of claim 15, wherein the shaft is disposed along a central
81	axis of the tube	•
82		
83	20.	The filter assembly of claim 15, wherein the filter is built in one body.
84		
85	21.	The filter assembly of claim 15, wherein a size of the plate is larger that of
86	the opening.	
87		
88	22.	The filter assembly of claim 15, wherein an edge of the plate is overlapped
89	with a rim of th	ne opening.
00		

23.

extending from the cap to facilitate to be grabbed.

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The filter assembly of claim 15, wherein the filter further comprises a handle